

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (currently amended) A composition suitable for manufacturing and molding a golf ball cover comprising:

(a) a polyurethane prepolymer comprising:

(1) a diisocyanate; and,

(2) a polyol; and,

(b) a curing agent blend comprising:

(1) a ~~slow-reacting diamine~~ first curative,
wherein said first curative is selected from the group
consisting of polyols, sterically hindered diamines, and
electronically hindered diamines; and,

(2) a fast-reacting diamine, wherein the
diamine has less hindrance than the hindered diamines.

Claim 2. (original) The composition of claim 1 wherein the diisocyanate is selected from the group consisting of toluene diisocyanate, 4, 4' -diphenylmethane diisocyanate, Isophorone diisocyanate and any mixtures thereof.

Claim 3. (currently amended) The composition of claim 1 wherein the prepolymer polyol is an ether glycol.

Claim 4. (original) The composition of claim 1 wherein the polyol is polytetramethylene glycol.

Claim 5. (original) The composition of claim 1 wherein the curing agent comprises a slow-reacting diamine with diethyl-2, 4-toluenediamine.

Claim 6. (original) The composition of claim 1 wherein the curing agent comprises dimethylthio-2, 4-toluenediamine and a fast-reacting diamine.

Claim 7. (original) The composition of claim 1 wherein the curing agent comprises a blend of dimethylthio-2, 4-toluenediamine and diethyl-2, 4-toluenediamine.

Claim 8. (currently amended) A composition suitable for manufacturing and molding a golf ball cover comprising:

- (a) a one-shot polyurethane ~~prepolymer~~ comprising:
 - (1) a diisocyanate; and,
 - (2) a polyol; and,
- (b) a curing agent comprising:
 - (1) ~~dimethylthio-2, 4-toluenediamine~~ a hindered diamine; and,
 - (2) ~~diethyl-2, 4-toluenediamine~~ an unhindered diamine.

Claim 9. (original) The composition of claim 8 wherein the diisocyanate is selected from the group consisting of toluene diisocyanate, 4, 4'-diphenylmethane diisocyanate, Isophorone diisocyanate and mixtures thereof.

Claim 10. (original) The composition of claim 8 wherein the polyol is an ether glycol.

Claim 11. (original) The composition of claim 8 wherein the polyol is tetramethylene ether glycol.

Claim 12. (currently amended) A method of making a golf ball comprising:

providing a prepolymer comprised of a diisocyanate and a polyol and heating the prepolymer;

providing a curative comprised of a slow-reacting component selected from the group consisting of a hindered diamine and a polyol, and mixed with an unhindered fast-~~reacting~~ diamine at room temperature;

mixing the prepolymer with the curative in a mixer to create a polymer mixture ;

pouring the polymer mixture into a first mold half and allowing the mixture to reach a semi-gelled state;

lowering a golf ball core into the first mold half such that the golf ball core is suspended in the semi-gelled polymer mixture;

pouring the polymer mixture into a second mold half and allowing the mixture to reach a semi-gelled state;

inverting the first mold half and mating it to the second mold half;

heating the mated first and second mold halves containing the polymer mixture and golf ball core;

cooling the mated first and second mold halves containing the polymer mixture and golf ball core; and,

removing the molded golf ball from the first and second mold halves and allowing the golf ball to cure.

Claim 13. (original) The method according to claim 12 wherein the prepolymer is heated to about 140°F.

Claim 14. (original) The method according to claim 13 wherein the first and second mold halves are heated to about 160°F.

Claim 15. (original) The method according to claim 14 wherein the polymer mixture is allowed to cure for approximately 35 seconds after being poured into the first mold half.

Claim 16. (original) The method according to claim 15 wherein the polymer mixture is allowed to cure for approximately 20 to 30 seconds after being poured into the second mold half and before inverting and mating the first mold half with the second mold half.

Claim 17. (original) The method according to claim 16 wherein the mated first and second mold halves are heated for approximately 4 minutes and cooled for approximately three minutes.

Claim 18. (original) The method according to claim 17 wherein the molded golf ball is allowed to cure at room temperature for about between 8 to 16 hours.

Claim 19. (original) The method according to claim 12 including the step of adding a pigment to the polymer mixture in the mixer.

Claim 20. (original) The method according to claim 19 wherein the pigment comprises .25 to 5% by weight of the total polymer mixture.